



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#6 #AF 12681  
Jd 8/15/01

AUG 14 2001

Technology Center 2600

In re Application of

Peele

Serial No. 09/317,480 ✓

Filed: May 24, 1999 ✓

For: **DYNAMIC CHANNEL ALLOCATION IN  
A SECTORED CELL OF A CELLULAR  
COMMUNICATION SYSTEM**

Attorney's Docket No. P-4015.279

E. Lockett  
Examiner  
Group Art Unit 2681

Raleigh, North Carolina  
August 6, 2001

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Director of Patents  
Washington, D.C. 20231

Response to FINAL Office Action of June 6, 2001

The Final Official Office Action dated 6 June 2001 in the above-identified application has been reviewed and Applicant submits the following remarks in response thereto.

Remarks

Applicant notes that 10-20 are allowed. Claims 1-9 and 21-30 have been finally rejected.

The present invention of claims 1-9 and 21-30 comprises the dynamic allocation of channels within a sectored cell of a cellular communication network. Available channels are allocated in groups to particular cells based on any of a number of frequency reuse patterns. Each cell is divided into sectors, and the channels assigned to a cell are allocated in subgroups to the sectors. A controller local to each base station monitors the use of channels within cell sectors, and dynamically re-allocates one or more channels to a sector whose utilization exceeds a predetermined threshold, after

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submission  
of a Notice  
of Appeal and  
Appeal Brief  
with requisite  
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Rp 9/11/01